

Currently Available Modules

If you require a software package that is not currently available on the Oscar cluster, please [contact ICERM's IT staff](#) and we will work with CCV to get the software installed.

This list is current as of November 10, 2021. To see the most up to date list of software modules, log into your Oscar account and run the command `module avail`.

```
~~~~~ category:
~~~~~
bxh_xcede_tools/1.11.14  confocal/1.0          potfit/20201014
cesm_post_process/Oct18  pigz/2.4
~~~~~ category: Microstructure modeling ~~~~~
oof2/2.1.17
~~~~~ category: access controlled ~~~~~
Molpro/2012.1.15
Molpro/2015_gcc
Molpro/2015_serial
Molpro/2018.2_ga
Molpro/2019.2
Molpro/2019.2_ga
Molpro/2020.1
Molpro/2020.1_ga
Molpro/2020.1_openmpi_4.0.5_gcc_10.2_slurm20
gaussian/g09
gaussian/g09-D01
gaussian/g09-D01-TEST
vasp/5.4.1
vasp/5.4.1_debug
vasp/5.4.1_mvapich2-2.3.5_intel_2020.2_slurm20
vasp/5.4.4
vasp/5.4.4_intel
vasp/5.4.4_mvapich2-2.3.5_intel_2020.2_slurm20
vasp/5.4.4_openmpi_4.0.5_gcc_10.2_slurm20
vasp/5.4.4a
vasp/6.1.1_ompi405_yqi27
vasp/6.1.1_openmpi_4.0.5_intel_2020.2_yqi27_slurm20
vasp/6.1.1_yqi27
```

```

~~~~~ category: graph partitioning ~~~~~
metis/5.1.0  parmetis/4.0.3  scotch/6.0.4
~~~~~ category: image processing
~~~~~
multinest/3.10  openslide/3.4.1  pstokes/1.0
~~~~~ category: libraries
~~~~~
astropy/3.2.1  cudnn/7.4  flann/1.8.4  lapack/3.7.0
astroquery/3.0.9  cudnn/7.6  hnn/1.0  mumps/5.0.2
blas/3.7.0  cudnn/7.6.5  horovod/0.16  mumps/5.0.2-seq
cudnn/5.1  cudnn/8.1.0  horovod/0.19.5  pcl/1.9.1
cudnn/6.0  cudnn/8.2.0  lapack/3.4.2  pcl/1.9.1_nurbs
cudnn/7.0  dlib/19.17  lapack/3.6.0  scalapack/2.0.2
~~~~~ category: library
~~~~~
openslide-python/1.1.1
~~~~~ category: machine learning
~~~~~
keras/2.0.9  keras/2.1.3_py3  nccl/2.8.4
keras/2.1.1  nccl/2.4.7
~~~~~ category: math
~~~~~
gsl/1.15  gsl/2.3  gsl/2.5
~~~~~ category: package
~~~~~
subread/1.6.2
~~~~~ category: software
~~~~~
mriconvert/2.1.0
~~~~~ category: utility
~~~~~
mriconvert/2.1.0
~~~~~ category: visualization
~~~~~
mayavi/4.6.0
~~~~~ category: (none)
~~~~~
HiC-Pro/2.7.8  jo/1.4  repeatmasker/4.1.0
HiC-Pro~/2.10.0  libsodium/1.0.17  repeatmodeler/1.0.11
awscli/1.0  mumax/3.9.3  sdl2/2.0.12
basilisk/1.0  ncl/6.4.0  siesta/3.2

```

canu/1.7.1 neuron/7.5 siesta/4.1
dropest/0.86 neuron/7.7 skewer/0.2.1
fiji/2017-java6 neuron/7.7_mpi squashfs/4.3
fiji/2020 nvidia-driver/440.33.01 tmux/2.8
fmri/20.0.0 pdflib/7.0.5 topcat/4.7
fv/5.5 pypy/6.0.0_2.7 transrate/1.0.3
gcm-core/2.0.498 pypy/6.0.0_3.5 vscode/1.22
grads/2.2.0 pypy/7.3.0_3.6 zstd/1.5.0
hotnet/1.0 repeatmasker/4.0.7

~~~~~ category: Applied Maths

oof2/2.1.17

~~~~~ category: Astrophysics

polychord/1.0 polychord/2.0

~~~~~ category: Bioinformatics

MultiQC/1.0 muscle/3.8.31

~~~~~ category: CAD

freecad/0.18 librecad/2.0

~~~~~ category: Chemistry

dalton/2018.0

dalton/2018.0\_mvapich2-2.3.5\_intel\_2020.2\_slurm20

~~~~~ category: Computer Architecture ~~~~~

risc/1.0

~~~~~ category: EDA tools

cadence/IC06.18.090 cadence/IC6.1.8.33 incisive/15.20.085

~~~~~ category: Executable for ceckpointings ~~~~~

dmtcp/2.6.0

~~~~~ category: Flag for CMAKE for fast build ~~~~~

ninja/1.9.0

~~~~~ category: GENETEICS

eigensoft/6.0

~~~~~ category: Genomic

Genrich/0.5 mcscanx/1.0

~~~~~ category: Genomic Library

```
~~~~~
redundans/1.0
~~~~~ category: Genomics
~~~~~
baypass/2.2    beast/2.5.2    kissplice/2.5.1
beast/1.10.4    kissplice/2.5.0
~~~~~ category: Genomics Sequencing Alignment ~~~~~
qualimap/2.2.1
~~~~~ category: Graphics
~~~~~
beagle/1.0.0
~~~~~ category: Helper function type ~~~~~
datamash/1.3
~~~~~ category: I/O
~~~~~
cdo/1.9.8
cdo/1.9.9
hdf5/1.10.0
hdf5/1.10.1_mvapich2-2.3.5_gcc_10.2_slurm20
hdf5/1.10.1_parallel
hdf5/1.10.5
hdf5/1.10.5_fortran
hdf5/1.10.5_mvapich2-2.3.5_intel_2020.2_slurm20
hdf5/1.10.5_openmpi_3.1.3_gcc
hdf5/1.10.5_openmpi_3.1.6_gcc
hdf5/1.10.5_openmpi_4.0.0_gcc
hdf5/1.10.5_openmpi_4.0.5_gcc_10.2_slurm20
hdf5/1.10.5_parallel
hdf5/1.10.7_hpcx_2.7.0_intel_2020.2_slurm20
hdf5/1.10.7_openmpi_4.0.5_gcc_10.2_slurm20
hdf5/1.10.7_openmpi_4.0.5_intel_2020.2_slurm20
hdf5/1.12.0_hpcx_2.7.0_intel_2020.2
hdf5/1.12.0_hpcx_2.7.0_intel_2020.2_slurm20
hdf5/1.12.0_openmpi_4.0.5_intel_2020.2_slurm20
jasper/1.900.1-intel
nco/4.6.6
nco/4.8.2
nco/4.9.3
netcdf/3.6.3
netcdf/4.4.1.1_gcc
netcdf/4.4.1.1_intel
```

netcdf/4.4.1.1_pgi
netcdf/4.7.0_intel2019.3
netcdf/4.7.4_gcc8.3
netcdf/4.7.4_gcc_10.2_hdf5_1.10.5
netcdf/4.7.4_intel_2020.2_hdf5_1.12.0
sqlite/3.25.2
sqlite/3.31.1
udunits/1.12.11
udunits/2.2.24
~~~~~ category: IDE  
~~~~~  
meshlab/20190129_qt59 spyder/3.3.5
~~~~~ category: Image processing and visualization ~~~~~  
opencv-python/4.1.0.25  
~~~~~ category: Library for optimizer ~~~~~  
numbbo/2.3_python2 numbbo/2.3_python3
~ category: Material science: <https://icet.materialsmodeling.org/overview.html> ~
icet/0.3
~~~~~ category: Medical imaging  
~~~~~  
mricrogl/1.0 mricrogl/1.2.20210317
~~~~~ category: Multifunctional Wavefunction Analyzer ~~~~~  
multiwfn/3.3.9  
~~~~~ category: Numerical Library  
~~~~~  
ngsolve/6.2.1901  
~~~~~ category: Numerical Solver  
~~~~~  
dedalus/2.1810  
dedalus/2.1905  
dedalus/2.1905\_openmpi\_4.05\_gcc\_10.2\_slurm20  
dedalus/Sep2019  
nektar++/4.5.0  
~~~~~ category: Quantum Monte Carlo  
~~~~~  
casino/2.13  
~~~~~ category: Tool for Image Manipulation ~~~~~  
netpbm/10.47.71
~~~~~ category: Utility  
~~~~~  
globus/1.11

~~~~~ category: Visualization Package Qt's Python API ~~~~~

pyqt/4.12.1

~~~~~ category: X

turbovnc/2.1.1 turbovnc/2.2.1 turbovnc/2.2.6 turbovnc/2.2.b1

~~~~~ category: astronomy

ares/0.1 iraf/2.16 sextractor/2.8.6

ares/0.5 iraf/2.16.1+2018.11.01 supermongo/2.4.34

ccfits/2.5 lsst/14.0 swarp/2.38

cfitsio/3.450 planck\_likelihood/3.0 theli/1.9.5

cfitsio/3.48 planck\_likelihood/3.01 wcstools/3.9.5

ds9/7.6 scamp/2.0.4

galfit/3.0.5 sextractor/2.19.5

~~~~~ category: astrophysics

fiat/Oct2019

~~~~~ category: astropy computing

astropy/3.2.1

~~~~~ category: astroquery computing

astroquery/3.0.9

~~~~~ category: benchmark

elbencho/2.0-1

~~~~~ category: binary for genome studies ~~~~~

bedGraphToBigWig/1.04

~~~~~ category: bio

SNAP/2013-11-29 mira/4.0.2

abyss/2.1.1 mne/0.17.0

ale/20140120 moseq2/0.1.2

aliview/1.25 moseq2/0.2.0

amplisat/20170208 mothur/1.39.5

angsd/0.920 mrbayes/3.2.6

anvio/5.2 mriqc/0.15.2

anvio/5.5 msmc/1.0.0

anvio/6.1 msmc/1.1.0

anvio/7 msmc/2.1.2

arb/6.0.6 msprime/0.7.0

|                                        |                       |
|----------------------------------------|-----------------------|
| augustus/3.3                           | msprime/0.7.2         |
| bamcleave/Oct2018                      | msprime/0.7.4         |
| bamtools/2.3.0                         | mummer/4.0.0.beta2    |
| bamtools/2.4.1                         | namd/2.11-multicore   |
| bbmap/38.23                            | namd/2.13b1-multicore |
| bbtools/38.12                          | nda-tools/1.0         |
| bcftools/1.10.2                        | nextclip/1.3.1        |
| bcftools/1.13                          | nextgenmap/0.5.2      |
| bcftools/1.9                           | nipytype/1.5.0        |
| bcl2fastq/2.20.0                       | nseg/20181012         |
| bedops/2.4.35                          | nvtop/1.1.0           |
| bedtools/2.25.0                        | obitools/1.2.12       |
| bedtools/2.26.0                        | octopus/0.7.4         |
| beeline/1.0                            | oligotyping/2.0       |
| biolite/1.0.0                          | omero/5.6.2           |
| biomed/1.0                             | opera/2.0.6           |
| biopython/1.66                         | orthomcl/2.0.9        |
| biopython/1.73                         | paml/4.8              |
| bismark/0.20.0                         | pandaseq/2.11         |
| blast/2.2.30+                          | paris/1.1.3           |
| blast/2.6.0+                           | paup/4.0a157          |
| blast/2.7.1+                           | paup/4.0a166          |
| blast/2.8.1+                           | paup/4.0a168          |
| blast/2.9.0+                           | pbsuite/15.8.24       |
| blat/36x2                              | pcangsd/0.98          |
| bowtie/1.2.0                           | picard-tools/2.17.11  |
| bowtie/2.4.1                           | picard-tools/2.9.2    |
| bowtie2/2.3.0                          | pilon/1.22            |
| bowtie2/2.3.5.1                        | pilon/1.24            |
| bowtie2/2.4.2                          | plink/1.07            |
| braker/2.1.0                           | plink/1.90            |
| busco/3.0.2                            | plink/2.00            |
| bwa/0.7.15                             | polyphen/2.2.2        |
| cabana/1.0                             | poolparty/0.8         |
| cabana/1.1_hpcx_2.7.0_gcc_10.2_slurm20 | popoolation2/1.201    |
| cantera/5.9.7                          | prinseq/0.20.4        |
| ccp4/7.0                               | prodigal/2.6.3        |
| circlator/1.5.5                        | psmc/0.6.5            |
| conn/16b                               | psmc/0.6.5a           |
| conn/18a                               | pymol/2.2b            |
| conn/18b                               | qctool/2.0            |

|                            |                    |
|----------------------------|--------------------|
| conn/18b_runtime           | qiime/1.9.1        |
| conn/18b_standalone        | quast/5.0.0        |
| conn/19c                   | raremetal/4.14.1   |
| conn/20b                   | raxml/8.2.10       |
| conn/20b_standalone        | raxml-ng/0.9.0     |
| connectome_workbench/1.3.1 | recon/1.08         |
| connectome_workbench/1.3.2 | repeatscout/1.0.5  |
| connectome_workbench/1.4.2 | revbayes/1.0.5     |
| cpac/1.0.1                 | revbayes/1.0.6     |
| cpac/1.5.0                 | rmblastn/2.10.0    |
| cufflinks/2.2.1            | rmblastn/2.6.0     |
| cutadapt/1.14              | rsem/1.3.1         |
| dada2/1.4.1                | salmon/0.11.3      |
| dada2/1.8                  | salmon/0.8.2       |
| dbg2olc/Sep2018            | salmon/1.0.0       |
| dendropy/4.2.0             | salmon/1.2.0       |
| diamond/0.9.12             | salmon/1.3.0       |
| diamond/0.9.24             | samblaster/0.1.24  |
| diamond/2.0.8              | samtools/0.1.18    |
| dida/1.0.1                 | samtools/1.10      |
| diffreps/1.55.6            | samtools/1.12      |
| dlcpar/1.1                 | samtools/1.13      |
| edge-pro/1.3.1             | samtools/1.2       |
| eems/1.0                   | samtools/1.3.1     |
| emboss/6.6.0               | samtools/1.4.1     |
| entap/0.8.1-beta           | samtools/1.9       |
| entap/0.8.4-beta           | schrodinger/2017-3 |
| exonerate/2.2.0            | schrodinger/2020-1 |
| fastme/2.1.5               | schrodinger/2020-3 |
| fastqc/0.11.5              | schrodinger/2021-1 |
| fastsimcoal/2              | schrodinger/2021-3 |
| fasttree/2.1.10            | selscan/1.2.0a     |
| fasttree/2.1.11            | seqkit/0.10.1      |
| fastuniq/1.1               | seqtk/1.3          |
| fastx-toolkit/2.6          | sga/0.10.15        |
| fgap/1.8.1                 | sift/6.2.1         |
| fgbio/0.6.1                | sift4g/2.0.0       |
| figtree/1.4.4              | sjaracne/0.2.0     |
| flashpca/2.0               | skesa/1.68         |
| freebayes/1.1.0            | slicer/4.10.0      |
| freebayes/1.2.0            | slim/3.1           |

|                             |                     |
|-----------------------------|---------------------|
| garlic/1.1.6                | slim/3.2.1          |
| gatk/4.0.9.0                | slim/3.3            |
| gatk/4.1.6.0                | snippy/Oct2017      |
| gatk/4.2.2.0                | spades/3.10.1       |
| gdcclient/1.4.0             | spades/3.13.0       |
| genemark/4.33               | span/0.10.0.4787    |
| guppy/4.0.11                | spm/spm12           |
| guppy/4.2.2                 | spm/spm12_7771      |
| guppy/5.0.7                 | sprint/0.1.8        |
| hapbin/1.3.0                | sratoolkit/2.10.5   |
| hisat2/2.1.0                | sratoolkit/2.11.0   |
| hmmer/3.1b2                 | sratoolkit/2.8.2-1  |
| homer/4.10                  | stacks/2.2          |
| hotnet2/1.2.1               | stampy/1.0.32       |
| htseq/0.11.1                | star/2.6.1b         |
| htseq/0.9.1                 | star/2.7.2a         |
| idba/1.1.3                  | star/2.7.3a         |
| idemp/20180928              | starfusion/1.7.0    |
| ilash/1.0.0                 | starfusion/1.8.1    |
| ilash/1.0.2                 | stringtie/1.3.3b    |
| interproscan/5.26-65.0      | stringtie/1.3.4d    |
| interproscan/5.27-66.0      | tabix/0.2.6         |
| interproscan/5.28-67.0      | tablemaker/2.1.1    |
| interproscan/5.32-71.0      | taxonkit/0.3.0      |
| interproscan/5.33-72.0      | tophat/2.1.1        |
| iq-tree/1.6.7               | transabyss/2.0.1    |
| iq-tree/2.0.6               | transindel/20181017 |
| jellyfish/1.1.11            | trf/4.09            |
| jellyfish/2.2.10            | trimal/1.4          |
| kneaddata/0.6.1             | trimgalore/0.5.0    |
| kraken/2.0.7-beta           | trimmomatic/0.36    |
| kraken/2.0.9-beta           | trinity/2.11.0      |
| kraken/2.1.2                | trinity/2.4.0       |
| last/956                    | trinity/2.8.4       |
| macs/2.1.1                  | usearch/5.2.32      |
| macs/2.2.6                  | usearch/8.1.1861    |
| mafft/7.310-with-extensions | varscan/2.3.9       |
| maker/2.31.10               | vcftools/0.1.16     |
| marsbar/0.42                | velvet/1.2.10       |
| maxbin2/2.2.5               | velvet/1.2.10a      |
| megahit/1.1.3               | vep/101             |

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meraculous/2.2.6          vep/104
metabat/2.12.1            viennarna/2.4.9
metaphlan/2.6.0           vmd/1.9.3
metavelvet/1.2.01         vsearch/2.11.1
migrate/3.6.11            weblogo/2.8.2
~~~~~ category: bio packages
~~~~~

bwameth/0.10
~~~~~ category: bioinformatics
~~~~~

umitools/1.0.0
~~~~~ category: biology
~~~~~

haplostrips/1.2.1  htlib/1.9      meme/5.0.5      mmsplice/0.2.7
htlib/1.13        libBigWig/0.4.4  meme/5.3.0      wiggletools/1.2.3
~~~~~ category: build tool
~~~~~

scons/3.0.1
~~~~~ category: cave
~~~~~

gigapixelviewer/alpha  minvr/dev_ben      vrg3d/265_compat
minvr/0.3master        planetaryviewer/alpha  vrg3d/265_demos
minvr/0.4              scalable/20150828    vrpn/7.33
minvr/beta             scalable/opengl32+
minvr/beta-bleeding    vrg3d/265
~~~~~ category: chemistry
~~~~~

Molpro/2012.1.15
Molpro/2015_gcc
Molpro/2015_serial
Molpro/2018.2_ga
Molpro/2019.2
Molpro/2019.2_ga
Molpro/2020.1
Molpro/2020.1_ga
Molpro/2020.1_openmpi_4.0.5_gcc_10.2_slurm20
ambertools/amber16
ambertools/amber16-gpu
ambertools/amber17
ambertools/amber17_lic
ambertools/amber21

```

ase/3.13.0  
ase/3.19.1  
ase/3.8.1  
bagel/1.2.2  
cp2k/7.1  
cp2k/8.1.0  
crossrate/2016.3.23  
dacapo/2.7.16\_mvapich2\_intel  
dice/1.0  
elk/5.2.14  
gaussian/g09  
gaussian/g09-D01  
gaussian/g09-D01-TEST  
gaussview/14Aug20  
gromacs/2016.6  
gromacs/2018.2  
gromacs/2018.2\_gpu  
gromacs/2018.2\_hpcx\_2.7.0\_gcc\_10.2\_slurm20  
gromacs/2020.1  
gromacs/2020.1\_hpcx\_2.7.0\_gcc\_10.2\_slurm20  
gromacs/2020.4\_gpu  
gromacs/2020.4\_gpu\_hpcx\_2.7.0\_gcc\_10.2\_slurm20  
gromacs/2020.4\_hpcx\_2.7.0\_gcc\_10.2\_slurm20  
hande/1.1.1  
hande/1.1.1\_64  
hande/1.1.1\_debug  
hotbit/10mar17  
lammmps/11Aug17\_serial  
lammmps/29Oct20\_openmpi\_4.0.5\_gcc\_10.2\_slurm20  
medea/3.2.3.0  
molden/5.7  
mrcc/2014-intel  
mrcc/2014-intel-threaded  
mrcc/2018-intel  
mrcc/2018-intel-threaded  
mrcc/2020  
n2p2/1.0.0  
n2p2/2.0.0  
n2p2/2.0.0\_hpcx  
nbo/7.0  
nwchem/6.8-openmpi

nwchem/7.0  
nwchem/7.0.2\_mvapich2-2.3.5\_intel\_2020.2\_slurm20  
openbabel/2.4.1  
openbabel/3.0.0  
openmolcas/18.09.617  
orca/4.0.1.2  
orca/4.1.1  
orca/4.2.1  
orca/5.0.0  
orca/5.0.1  
prophet/augustegm\_1.2  
pyscf/1.4.7  
pyscf/1.6.3  
qchem/5.0.2  
qchem/5.0.2-openmpi  
qmcpack/3.10.0\_openmpi\_4.0.5\_intel\_2020.2\_slurm20  
qmcpack/3.7.0  
qmcpack/3.9.1  
qmcpack/3.9.1\_openmpi\_3.1.6  
qmcpack/3.9.2\_hpcx\_2.7.0\_gcc\_10.2\_slurm20  
qmcpack/3.9.2\_intel\_2020  
qmcpack/3.9.2\_openmpi\_4.0.0\_gcc\_8.3\_slurm20  
qmcpack/3.9.2\_openmpi\_4.0.0\_gcc\_8.3\_slurm20\_complex  
qmcpack/3.9.2\_openmpi\_4.0.1\_gcc  
qmcpack/3.9.2\_openmpi\_4.0.4\_gcc  
qmcpack/3.9.2\_openmpi\_4.0.5\_intel\_2020.2\_slurm20  
quantumespresso/6.1  
quantumespresso/6.3  
quantumespresso/6.4  
quantumespresso/6.4.1  
quantumespresso/6.4\_openmpi\_4.0.0\_gcc\_8.3\_slurm20  
quantumespresso/6.4\_openmpi\_4.0.5\_intel\_2020.2\_slurm20  
quantumespresso/6.4\_openmpi\_4.0.5\_intel\_slurm20  
quantumespresso/6.5  
quantumespresso/6.5\_openmpi\_4.0.5\_intel\_slurm20  
quantumespresso/6.6  
quantumespresso/6.6\_openmpi\_4.0.5\_intel\_2020.2\_slurm20  
rotd/2014-11-15\_mvapich2  
schrodinger/2017-3  
schrodinger/2020-1  
schrodinger/2020-3

schrodinger/2021-1  
schrodinger/2021-3  
sharc/2.0  
sharc/2.1.1  
sharc/2.1.1\_intel  
vasp/5.4.1  
vasp/5.4.1\_debug  
vasp/5.4.1\_mvapich2-2.3.5\_intel\_2020.2\_slurm20  
vasp/5.4.4  
vasp/5.4.4\_intel  
vasp/5.4.4\_mvapich2-2.3.5\_intel\_2020.2\_slurm20  
vasp/5.4.4\_openmpi\_4.0.5\_gcc\_10.2\_slurm20  
vasp/5.4.4a  
vasp/6.1.1\_ompi405\_yqi27  
vasp/6.1.1\_openmpi\_4.0.5\_intel\_2020.2\_yqi27\_slurm20  
vasp/6.1.1\_yqi27  
xcrysden/1.5.60

~~~~~ category: class  
~~~~~

class/1435  
~~~~~ category: clients  
~~~~~

aspera/3.8.1  
~~~~~ category: climate  
~~~~~

cesm/1.2.1 cesm/2.1.1 esmf/8.0.0 esmf/8.1.0b11  
cesm/1.2.2 esmf/7.1.0r esmf/8.0.0b esmf/8.1.9b17  
~~~~~ category: compilers  
~~~~~

|                        |                   |                  |
|------------------------|-------------------|------------------|
| Xvfb/1.20.12           | gcc/10.2          | java/8u111       |
| clang/3.9.1            | gcc/4.5.4         | java/jdk-11.0.11 |
| clang/7.0.0            | gcc/4.7.2         | java/jdk-12.0.2  |
| clang/7.1.0            | gcc/4.9.4         | kokkos/3.3.1     |
| cuda/10.0.130          | gcc/5.4           | kokkos/3.4.1     |
| cuda/10.1.105          | gcc/6.2           | llvm/11.0.1      |
| cuda/10.2              | gcc/6.3           | llvm/3.8.1       |
| cuda/11.1.1            | gcc/7.2           | llvm/4.0.0       |
| cuda/11.1.1_intel_2020 | gcc/8.3           | llvm/6.0.1       |
| cuda/11.3.1            | intel/2011.11.339 | llvm/7.1.0       |
| cuda/7.5.18            | intel/2013.1.106  | nag/6.2          |
| cuda/8.0.61            | intel/2017.0      | nag/mb16i25dnl   |

|               |              |             |
|---------------|--------------|-------------|
| cuda/9.0.176  | intel/2018.1 | pgi/16.7    |
| cuda/9.1.85.1 | intel/2019.3 | pgi/2019    |
| cuda/9.2.148  | intel/2020.2 | swig/3.0.10 |

~~~~~ category: computer architecture ~~~~~

llvmOpenmp/1.0 llvmOpenmp/2.0

~~~~~ category: containers

~~~~~

singularity2/2.5.2

~~~~~ category: cross webbrowser web application development environment ~~~~~

chromedriver/2.46

~~~~~ category: data analysis(<http://www.mega-nerd.com/>) ~~~~~

libsnd/1.0.28

~~~~~ category: data science

~~~~~

| | | |
|--------------------|-----------------|-----------------|
| catboost/0.8.1 | manureadr/1.0 | pandas/py_3.6.6 |
| catboost/0.8.1_py3 | pandas/py_3.5.2 | |

~~~~~ category: data structure library ~~~~~

dcm2bids/2.1.4

~~~~~ category: debugging and profiling ~~~~~

forge/18.2.3 forge/19.1.2 forge/21.0.2

~~~~~ category: dev

~~~~~

googletest/1.8.0 qemu/4.1.0

~~~~~ category: devel

~~~~~

| | | |
|--------------|--------------------|-----------------------|
| bazel/0.23.0 | glew/1.13.0 | opengl/nvidia-375.66 |
| bazel/0.25.2 | glew/2.1.0 | opengl/nvidia-390.30 |
| bazel/0.4.4 | opengl/mesa-12.0.6 | opengl/nvidia-410.72 |
| bazel/0.5.4 | opengl/mesa-18.3.3 | protobuf/3.4.1 |
| bazel/1.2.1 | opengl/nvidia | protobuf/3.6.0_gcc5.4 |

~~~~~ category: editor

~~~~~

emacs/26.3 neovim/0.4.4

~~~~~ category: engineering

~~~~~

| | |
|-----------------------|-----------------------------|
| abaqus/2017 | comsol/5.6 |
| abaqus/2021 | mentor-calibre/2020.1_36.18 |
| abaqus/2021.1 | spectre/191 |
| abaqus/2021.1_intel17 | su2/7.0.2 |
| abaqus/6.12sp2 | synopsys/2018.06 |
| ansys/18.1 | synopsys/2020.06 |

```

assura/04.16.107      synopsys/L_2016.03-SP2
comsol/5.2
~~~~~ category: fMRI
~~~~~

brainiak/Feb2018
~~~~~ category: fonts
~~~~~

freetype/2.7.1
~~~~~ category: gene and species tree ~~~~~

phyldog/1.0
~~~~~ category: genetics
~~~~~

megacc/10.1.8
~~~~~ category: genomic
~~~~~

admixture/1.3.0      glactools/1.0.7      pybigwig/0.3.15
deeptools/3.2.1      partitionfinder/2.1.1  pysam/0.15.2
deeptoolsintervals/0.1.7 py2bit/0.3.0      pyslim/1.0
~~~~~ category: genomics
~~~~~

cellranger/3.1.0      cellranger/arc-1.0.1 faststructure/1.0
cellranger/5.0.1      chromopainter/0.0.4  relernn/6Dec2019
cellranger/6.0.0      clustal_omega/1.2.4
~~~~~ category: graphics
~~~~~

campari/3.0      gnuplot/5.2.3      inkscape/Sep-2019
~~~~~ category: image
~~~~~

c3d/1.0.0      imagej/1.52a      leptonica/1.79.0  openexr/2.2.1
ffmpeg/3.2.4      imagemagick/7.0.7  libgd/2.2.5
ffmpeg/4.0.1      isis/3.5.1      libgit/1.1.0
~~~~~ category: image converter
~~~~~

mriconvert/2.1.0
~~~~~ category: image processing
~~~~~

libgif/5.1.9      libjpeg-turbo/2.0.2  openjpeg/2.3.1
libjpeg/9.0      mayavi/4.6.0      openslide-python/1.1.1
~~~~~ category: languages
~~~~~

R/3.3.2      julia/1.0      miniconda/4.10

```

| | | |
|------------------|---------------------|----------------------|
| R/3.4.0 | julia/1.0.2 | perl/5.16.0 |
| R/3.4.3 | julia/1.1.0 | perl/5.18.2 |
| R/3.4.3_mkl | julia/1.2.0 | perl/5.24.1 |
| R/3.4.4 | julia/1.4.1 | perl/5.30.0 |
| R/3.5.2 | julia/1.4.2 | perl/5.8.9 |
| R/3.6.0 | julia/1.5.0 | python/2.7.12 |
| R/3.6.3 | julia/1.5.1 | python/2.7.12_clean |
| R/4.0.0 | julia/1.5.2 | python/2.7.16 |
| R/4.0.3 | julia/1.5.3 | python/3.5.2 |
| R/4.0.5 | julia/1.5.4 | python/3.6.6 |
| R/4.1.0 | julia/1.6.0 | python/3.6.6_test |
| anaconda/2-4.3.0 | julia/1.6.1 | python/3.6.8_gcc8.3 |
| anaconda/2-5.3.0 | julia/1.6.2 | python/3.7.4 |
| anaconda/2020.02 | julia/1.6.3 | python/3.8.12_gcc8.3 |
| anaconda/3-4.3.0 | lua/5.3.4 | python/3.9.0 |
| anaconda/3-5.2.0 | maple/16 | qt/3.3.8b |
| golang/1.15.6 | maple/20 | qt/3.3.8b-51 |
| golang/1.16.6 | materialstudio/2020 | qt/5.10.1 |
| golang/1.17.1 | mathematica/10.3.1 | qt/5.12 |
| idl/8.5.1 | mathematica/11.0 | qt/5.12.0 |
| idl_DEEPS/8.7.2 | mathematica/12.0 | qt/5.13.1 |
| java/8u111 | matlab/R2016a | qt/5.14.2 |
| java/jdk-11.0.11 | matlab/R2017a | qt/5.7.0 |
| java/jdk-12.0.2 | matlab/R2017b | qt/5.9.0 |
| julia/0.5.1 | matlab/R2018a | ruby/2.4.0 |
| julia/0.6.1 | matlab/R2018b | rust/1.45.1 |
| julia/0.6.4 | matlab/R2019a | rust/1.50.1 |
| julia/0.7.0 | matlab/R2021a | scala/2.12.2 |

~~~~~ category: lib

~~~~~

lftp/4.8.4

~~~~~ category: libraries

~~~~~

Xvfb/1.20.12

acml/5.2.0-gfortran

agalma/1.0.0

armadillo/9.200.4

assimp/4.1.0

assimp/5.0.0

blast-legacy/2.2.26

boost/1.44.0

boost/1.49.0
boost/1.55
boost/1.57
boost/1.62.0-intel
boost/1.63.0
boost/1.68
boost/1.69
boost/1.75.0_openmpi_4.0.5_intel_2020.2_slurm20
boost/1.76.0_hpcx_2.7.0_gcc_10.2_slurm20
boost/1.76.0_hpcx_2.7.0_intel_2020.2_slurm20
bzip2/1.0.2
c-blosc/1.16.3
cdhit/4.6.8
cuda/10.0.130
cuda/10.1.105
cuda/10.2
cuda/11.1.1
cuda/11.1.1_intel_2020
cuda/11.3.1
cuda/7.5.18
cuda/8.0.61
cuda/9.0.176
cuda/9.1.85.1
cuda/9.2.148
ea-utils/1.04.807
fabm/1.0.2
fastq-tools/0.8
fftw/2.1.5
fftw/2.1.5-double
fftw/3.3.6
fftw/3.3.8
fftw/3.3.8a
freeglut/3.0.0
geos/3.4.2
geos/3.7.1
geos/3.8.1
gerris/1.0
global_arrays/5.6.1
global_arrays/5.6.1_i8
global_arrays/5.6.1_openmpi_2.0.3
global_arrays/5.8_openmpi_4.0.5_gcc_10.2_slurm20

gmp/6.1.2
gsl/1.15
gsl/2.3
gsl/2.5
igraph/0.7.1
keras/2.0.9
keras/2.1.1
keras/2.1.3_py3
lemon/1.3.1
leveldb/1.20
libcutensor/10.2
libflint/2.7.1
libint/2.5.0
libpng12/1.2.57
libspatialindex/1.9.3
libtiff/4.0.10
libxc/4.3.4
libzip/0.9-3.1.el6
lp_solve/5.5.2.5
metis/5.1.0
mpfr/3.1.5
mpfr/4.0.2
mpi4py/3.0.1_py3.6.8
mxnet/1.3.0
node.js/14.16.0
node.js/6.10.3
occa/1.2
openblas/0.2.19
openblas/0.2.8
openblas/0.3.7
opencv/3.2.0
opencv/3.4.1
parmetis/4.0.3
pcre2/10.35
phylobales/1.8b
proj/4.9.3
proj/5.2.0
proj/7.0.0
pytorch/1.3.1
sparsehash/2.0.2
suiteparse/4.5.4

sysstat/12.5.4
tensorflow/1.1.0_cpu
tensorflow/1.1.0_gpu
tensorflow/1.13.1_cpu_py3
tensorflow/1.13.1_gpu
tensorflow/1.13.1_gpu_keras
tensorflow/1.13.1_gpu_py3
tensorflow/1.14.0_gpu_py36
tensorflow/1.4.1_cpu
tensorflow/1.4.1_cpu_py3
tensorflow/1.4.1_gpu
tensorflow/1.4.1_gpu_py3
tensorflow/1.4.1_gpu_py3_cuda9.1
tensorflow/1.5.0_cpu_py3
tensorflow/1.5.0_gpu
tensorflow/1.5.0_gpu_py3
tensorflow/2.0.0_cpu_py37
tensorflow/2.0.0_gpu_py37
theano/1.0.1_py3
transdecoder/5.4.0
v8/3.14.5
voro++/0.4.6
vrpn/7.33
whatshap/Sep2018
xeyes/1.0
xz/5.2.4
yaml-cpp/0.6.2
yaml-cpp/0.6.2_intel2019.3
yaml-cpp/0.6.3_intel_2020.2
zlib/1.2.11
~~~~~ category: library  
~~~~~  
catch2/2.3 matplotlib/2.2.4 pmclib/1.1
dcmtk/3.6.6 multineat/3.10 pstokes/1.0
dotnet/5.0.202 nccl/2.4.7 sprng/5.0
easydict/1.7 nccl/2.8.4 statsmodels/0.9.0
fastq_screen/0.13.0 openslide/3.4.1
gsutil/350 p7zip/16.02
~~~~~ category: machine learning  
~~~~~  
1/1.01 py-faster-rcnn/July2018

| | |
|-------------------|----------------------------------|
| 1/2.03 | rapidjson/1.1.0 |
| attend2u/20180216 | scikit-learn/0.19.1 |
| cudnn/5.1 | scikit-learn/0.21.2 |
| cudnn/6.0 | sciml_class/pytorch-21.06 |
| cudnn/7.0 | tensorflow/1.1.0_cpu |
| cudnn/7.4 | tensorflow/1.1.0_gpu |
| cudnn/7.6 | tensorflow/1.13.1_cpu_py3 |
| cudnn/7.6.5 | tensorflow/1.13.1_gpu |
| cudnn/8.1.0 | tensorflow/1.13.1_gpu_keras |
| cudnn/8.2.0 | tensorflow/1.13.1_gpu_py3 |
| deeparg/Jan2019 | tensorflow/1.14.0_gpu_py36 |
| deeparg/Oct2018 | tensorflow/1.4.1_cpu |
| deeplabcut/1.01 | tensorflow/1.4.1_cpu_py3 |
| deeplabcut/2.03 | tensorflow/1.4.1_gpu |
| deeplabcut/2.1.4 | tensorflow/1.4.1_gpu_py3 |
| deeplabcut/2.1.9 | tensorflow/1.4.1_gpu_py3_cuda9.1 |
| deeplabcut/2.2 | tensorflow/1.5.0_cpu_py3 |
| dlib/19.17 | tensorflow/1.5.0_gpu |
| flann/1.8.4 | tensorflow/1.5.0_gpu_py3 |
| hnn/1.0 | tensorflow/2.0.0_cpu_py37 |
| horovod/0.16 | tensorflow/2.0.0_gpu_py37 |
| horovod/0.19.5 | tf-horovod/1.0 |
| pcl/1.9.1 | xgboost/1.3.3 |
| pcl/1.9.1_nurbs | |

~~~~~ category: math

~~~~~

| | | |
|-----------------|-----------------------|-----------------|
| atlas/3.10.3 | lapack/3.7.0 | ripser/0.5.3 |
| blas/3.7.0 | macaulay2/1.12-1 | rss/1.0 |
| cgal/3.14.1 | magma/V2.23-10 | sage/8.7 |
| fenics/2017.1 | magma/V2.25-5 | sage/9.0 |
| fenics/2018.1.0 | magma/V2.25-5-gpu | scalapack/2.0.2 |
| gap/4.9.1 | magma-gpu/2.4.0 | sympy/1.4 |
| gmsh/3.0.1 | magma-gpu/2.5.4_volta | trlan/2010.09 |
| lapack/3.4.2 | nlopt/2.5.0 | |
| lapack/3.6.0 | numpy/intel_1.15.1 | |

~~~~~ category: misc

~~~~~

| | |
|--------------|------------------------|
| mark/Dec18 | mysql/8.0.13 |
| mysql/5.7.28 | netcdf4-python/4.1.4.2 |

~~~~~ category: ml

~~~~~

bonito/0.3.1

~~~~~ category: model

gotm/5.0\_qingli gotm/5.3

~~~~~ category: molecular dynamics

mdanalysis/0.19.2

~~~~~ category: mpi

mpi/cave\_mvapich2\_2.3b\_gcc

mpi/cave\_mvapich2\_2.3b\_intel

mpi/cave\_mvapich2\_2.3rc2\_gcc

mpi/hpcx\_2.7.0\_gcc\_10.2\_slurm20

mpi/hpcx\_2.7.0\_intel\_2020.2\_slurm20

mpi/mpich3.3a3\_intel\_2020.2

mpi/mvapich2-2.3.5\_gcc\_10.2\_slurm20

mpi/mvapich2-2.3.5\_intel\_2017.0\_slurm20

mpi/mvapich2-2.3.5\_intel\_2020.2\_slurm20

mpi/openmpi\_2.0.3\_intel\_2020.2\_slurm20

mpi/openmpi\_3.1.6\_gcc

mpi/openmpi\_3.1.6\_gcc\_10.2\_slurm20

mpi/openmpi\_4.0.0\_gcc

mpi/openmpi\_4.0.1\_gcc

mpi/openmpi\_4.0.4\_gcc

mpi/openmpi\_4.0.4\_gcc\_8.3\_slurm20

mpi/openmpi\_4.0.5\_gcc\_10.2\_slurm20

mpi/openmpi\_4.0.5\_intel\_2020.2\_cuda\_9.1.85\_slurm20

mpi/openmpi\_4.0.5\_intel\_2020.2\_slurm20

mpi/openmpi\_4.1.1\_gcc\_10.2\_slurm20

osu-mpi/5.3.2

osu-mpi/5.6.2\_mvapich2-2.3a\_gcc

~~~~~ category: mri

afni/17.1.00 freesurfer/6.0.0

afni/18.2.06 freesurfer/6.0.0_rh7

afni/19.0.17 freesurfer/6.0.0_rh7-30-Nov-2018

afni/19.3.08 freesurfer/7.1.1

afni/19.3.10 fsl/5.0.10

afni/20.0.03 fsl/6.0.0

afni/20.1.06 fsl/6.0.3

afni/21.2.04 mmvt/2020-06

| | |
|--|---------------------------------|
| ants/2.1.0 | mrmcron/05-2016 |
| ants/2.3.1 | mrmcron/12-2012 |
| ants/2.3.4 | mrmcron/2019-09 |
| dsi/april2019 | tortoise/3.1.0 |
| ~~~~~ category: neuro | |
| ~~~~~ | |
| dtitk/2.3.1 | qit/1.0 qit/2.0 qit/Jun21 |
| ~~~~~ category: neuroscience | |
| ~~~~~ | |
| sct/4.2.2 | |
| ~~~~~ category: numerical optimization ~~~~~ | |
| bayop/1.0 | |
| ~~~~~ category: other | |
| ~~~~~ | |
| sbt/1.2.3 | |
| ~~~~~ category: package | |
| ~~~~~ | |
| ffte/6.0 | ffte/6.0/mpi |
| ~~~~~ category: performance | |
| ~~~~~ | |
| ior/2.10.3 | ipm/2.0.6_r |
| ior/3.0.1 | osu-mpi/5.3.2 |
| ior/3.2.1 | osu-mpi/5.6.2_mvapich2-2.3a_gcc |
| ipm/2.0.6 | papi/5.4.3 |
| ~~~~~ category: physics | |
| ~~~~~ | |
| casa/5.1.2 | |
| geant/4.10.04.p01 | |
| geant/4.10.3 | |
| geant/4.10.5 | |
| geant/4.9.4.p04 | |
| gpaw/0.10.0 | |
| gpaw/1.2.0 | |
| gpaw/1.2.0_hpcx_2.7.0_gcc | |
| gpaw/1.2.0_mvapich2-2.3a_gcc | |
| gpaw/20.10.0_hpcx_2.7.0_intel_2020.2_slurm20 | |
| gpaw/20.10_hpcx_2.7.0_intel_2020.2_slurm20 | |
| gpaw/21.1.0_hpcx_2.7.0_gcc_10.2_slurm20 | |
| gpaw/21.1.0_openmpi_4.0.5_gcc_10.2_slurm20 | |
| gpaw/21.1.0a_openmpi_4.0.5_gcc_10.2_slurm20 | |
| hoomd/2.9.0 | |

jdftx/1.4.2

lumericalfdtd/8.16.982

mcx/20180525

mcxlab/2017.7

mujoco-py/1.50.1.23

pymultinest/2.9

root/6.10

~~~~~ category: profiling and debugging ~~~~~

cube/4.3.4

ncdu/1.14

ddd/3.3.12

scalasca/2.3.1\_intel

gdb/7.12.1

scorep/3.0\_intel\_mvapich2

gperftools/2.5

valgrind/3.12.0

~~~~~ category: python

~~~~~

numpydoc/0.9.1

pytables/3.5.2

six/1.12.0

plotly/3.9.0

python\_igraph/0.7.1

~~~~~ category: python library

~~~~~

wx/1.0

~~~~~ category: software

~~~~~

annovar/2018Apr16 orthofinder/2.2.7 orthofinder/2.3.3

~~~~~ category: software management

~~~~~

maven/3.2.2 maven/3.8.1

~~~~~ category: solvers

~~~~~

eigen/3.2.2

eigen/3.3.2

eigen/3.4.0

mcl/12.135

mineos/1.0

mumps/5.0.2

mumps/5.0.2-seq

openfoam/4.1

openfoam/4.1a

openfoam/7.0\_hpcx\_2.7.0\_gcc\_10.2\_slurm20

pari/2.11.2

pastix/5.2.3

petsc/3.14.2\_hpcx\_2.7.0\_gcc\_10.2\_slurm20

petsc/3.14.2\_hpcx\_2.7.0\_intel\_2020.2\_slurm20

petsc/3.14.2\_mpich3.3a3\_intel\_2020.2

petsc/3.7.5

petsc/3.7.7

petsc/3.8.3

polyrate/17C

scotch/6.0.4

suiteparse/4.5.4

trilinos/12.12.1

~~~~~ category: stat

~~~~~

seaborn/0.10.0

~~~~~ category: statistical analysis package ~~~~~

glmnet/1.0

~~~~~ category: statistics

~~~~~

JAGS/4.2.0 R/3.6.3 caffe/1.0_with_cudnn

JAGS/4.3.0 R/4.0.0 mallet/2.0.8rc3

R/3.3.2 R/4.0.3 rstudio/1.0.44

R/3.4.0 R/4.0.5 rstudio/1.1.463

R/3.4.3 R/4.1.0 rstudio/1.4.1103

R/3.4.3_mkl SAS/9.4M6 stata/14

R/3.4.4 SAS/9.4b stata/15

R/3.5.2 caffe/1.0 wfu_pickatlas/3.0.5b

R/3.6.0 caffe/1.0_CPU_ONLY

~~~~~ category: sys

~~~~~

dos2unix/7.4.0

~~~~~ category: system

~~~~~

wayland/1.18.0 xfce/4.10 xfce/4.16

wayland-protocols/1.20 xfce/4.12

~~~~~ category: tex

~~~~~

pandoc/2.9.2.1

~~~~~ category: text editing

~~~~~

texstudio/2.12.16

~~~~~ category: tool

~~~~~

dcm2niix/25.0

~~~~~ category: tool kit

~~~~~

subread/1.6.2

~~~~~ category: tools

~~~~~

idr/2.0.2 omero/5.6.2

~~~~~ category: utilities

~~~~~

atom/1.19.3 git/2.10.2

bamaddrg/20180928 git/2.20.2

binutils/2.29.1 git/2.29.2

binutils/2.31 h4cf/1.2

chrome/55.0 h5py/2.9.0

chrome/73.0 intltool/0.51.0

cmake/3.10.1 itstool/2.0.4

cmake/3.15.4 json_cpp/1.9.4

cmake/3.20.0 json_fortran/8.1.0

cmake/3.6.3 kallisto/0.46.1

cmake/3.8.0 libevent/2.1.8

colordiff/1.0.18 libwnck/3.24.1

comsol/5.2 mercurial/5.1

comsol/5.6 ncurses/6.2

cppunit/1.14.0 pdftk/2.02

curl/7.61.1 perf-tools/2.7

cvs/1.11.23 rclone/1.51.0

depot_tools/Jan2019 rsync/3.1.3

engineering/19.10.237 spfft/0.9.12

engineering/calibre2020.1_36 sublime/2.0.2

express/1.5.1 svn/1.8.17

fileZilla/3.10.0 svn/1.9.5

firefox/56.0.2 texinfo/4.13a

firefox/59.0.2 texlive/2018

firefox/66.0.3 vim/8.1

firefox/68.0 vim/8.1_py3

firefox/87.0 vnc-apps/7.2

ghostscript/9.21 xxdiff/4.0.1

~~~~~ category: utility

~~~~~

redis/6.2.4

~~~~~ category: version record for large files ~~~~~

gitlfs/2.7.1

~~~~~ category: vision

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opencv/3.2.0      scikit-image/0.13.1    tesseract/3.05.00

opencv/3.4.1      scikit-image/0.15.0    tesseract/4.00.00

~~~~~ category: visualization

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atomeye/3.0

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blender/2.78

blender/2.79

blender/2.90.1

cartopy/0.16.0

cartopy/0.17.0

cave-demo/yurt

cave-utils/yurt

caviar/1.0

ferret/7.1

gdal/2.1.3

gdal/2.4.0

gdal/3.0.4

gephi/0.9.2

gimp/2.8.22

gimp/2.9.6

glm/0.9.9

glm/0.9.9.5

grace/5.1.25

graphviz/2.40.1

minvr/0.3master

minvr/0.4

minvr/beta

minvr/beta-bleeding

minvr/dev\_ben

ncview/2.1.7

openscad/2015.03-3

openscenegraph/3.4.0

osgearh/2.7

ovito/2.8.2

ovito/2.9.0

paraview/5.1.0

paraview/5.1.0\_yurt

paraview/5.4.1

paraview/5.6.0\_no\_scalable

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paraview/5.6.0_yurt
paraview/5.8.0
paraview/5.8.0_mesa
paraview/5.8.0_release
paraview/5.8.1_openmpi_4.0.5_intel_2020.2_slurm20
paraview/5.9.0
photoscan/1.3.0
pyshp/2.0.1
shapely/1.6.4
tecplot/2017
tecplot/2017R3
tecplot/2018R2
tecplot/2019R1
unity/Unity-2017.3.0b1
unity/unity-editor-2017.2.0f3
visit/2.13.2
visit/2.7.2
vmd/1.9.3
vrg3d/265
vrg3d/265_compat
vrg3d/265_demos
vtk/5.6.1
vtk/7.1.1
vtk/7.1.1a
vtk/8.1.0
xcrysden/1.5.60
~~~~~ category: vizualization
~~~~~

metashape/1.5.4
~~~~~ category: weather
~~~~~

wrf/3.6.1
wrf/4.2.1_hpcx_2.7.0_intel_2020.2_slurm20
~~~~~ category: workshop
~~~~~

workshop/1.0 workshop/3.0

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Revision #2

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